

**CURRICULUM VITAE**  
**Kayode E. Adewole, BSc MSc PhD**

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**NAME:** Kayode Ezekiel **ADEWOLE.** BSc MSc PhD

**CONTACT ADDRESSES:**

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**PRESENT ACADEMIC POSITION:**

- **Lecturer II**, Department of Biochemistry, Faculty of Basic Medical Sciences, University of Medical Sciences, Ondo State Nigeria

**EDUCATION**

- 2003 BSc. Biochemistry, University of Ilorin, Ilorin Nigeria
- 2007 MSc. Biochemistry, University of Ibadan
- 2017 Ph.D. Biochemistry, University of Ilorin, Ilorin Nigeria

**GRANT**

- **2015-Recipient of West Africa Research Council Travel Grant** Short term visit to Kintampo Health Research Centre Kintampo, Brong-Ahafo Region Ghana to conduct part of Ph.D. research
- **2020- Recipient of TETFUND Foreign Conference Attendance Intervention** To attend The 20th International Congress for Tropical Medicine and Malaria (ICTMM 2020) 20st-24th September 2020 at Bangkok, Thailand.
- **2021- Co-Recipient of TETFUND Institutional-Based Research Grant** for Assessment of *Morinda lucida* leaf phytosterol-enriched extract for anti-benign prostatic hyperplasia and histone deacetylase inhibitory potentials

**ACADEMIC CAREER AND EMPLOYMENT HISTORY**

- 2013-2017 **Full-time Ph.D. Programme**, University of Ilorin, Ilorin Nigeria
- 2015 **Visiting Research Fellow**, West Africa Research Association (Kintampo Health Research Centre Kintampo, Brong-Ahafo Region Ghana)
- 2018 (1st October) - 2019 (3rd February) **Lecturer II**, Ajayi Crowther University Oyo, Oyo State Nigeria
- 2019 (February 4) **Lecturer II**, University of Medical Sciences, Ondo City, Ondo State Nigeria

**MEMBERSHIP OF LEARNED SOCIETIES**

- (a) Member, West Africa Research Association
- (b) Member, Society of Toxicology
- (c) Associate Member, Royal Society of Chemistry

**TRAININGS ATTENDED**

- Bioinformatics foundational training (Africa Centre of Excellence for Genomics of Infectious Diseases, Redeemer's University Ede, Nigeria) 25th-29th, November 2019

- Entrenching Integrity and Combating Fraud in the Examination and Records Administration of Tertiary Institution, 20th & 21st April, 2021
- Primer in Systemic Reviews & Research Synthesis, Stellenbosch University, 1st Nov- 20<sup>th</sup> Dec 2021.

### CURRENT RESEARCH INTERESTS

- Exploration of bioactive phytochemicals as anticancer, antimalarial and neuroprotective agents

### CONFERENCE ABSTRACTS

- (1) **Adewole KE**, Ishola AA, Balogun EA, J.O. Adebayo. Identification of Potential Antimalarial Alkaloids and Terpenoids from African Medicinal Plants Using *In Silico Plasmodium falciparum* Protein-Ligand Interactions. **The 20th International Congress for Tropical Medicine and Malaria (ICTMM 2020) 20st-24th September 2020 at Bangkok, Thailand.**
- (2) **Adewole KE**, Ishola AA, Omolaso BO. Identification of potential histone deacetylase inhibitory biflavonoids from *Garcinia kola* (Guttiferae) using in silico protein-ligand interaction. **Virtual Conference on Chemistry and its Applications (VCCA-2020, 1st to 31st August 2020).**
- (3) **Adewole KE** and Adebayo JO. Effects of Cysteine-Stabilised Peptide Fraction of Aqueous Extract of *Morinda lucida* Leaf on Selected Kidney Function Indices in Mice. **Society of Toxicology (SOT) Baltimore 2017 Annual Meeting Abstract Supplement.**
- (4) **Adewole KE**, Attah AF, Sonibare MA, Moody JO and Adebayo JO. Identification of antioxidant cysteine-stabilised peptides of *Morinda lucida* benth. (rubiaceae) leaf. **35th Conference of Nigerian Society of Biochemistry and Molecular Biology (NSBMB) Covenant University, Ota 2016.**
- (5) Tubi IO, **Adewole KE**, Salawudeen IO, Alaran OG and Adebayo JO. Effects of crude peptide extract of *Cymbopogon giganteus* leaf on selected liver function indices in mice. **35th Conference of Nigerian Society of Biochemistry and Molecular Biology (NSBMB) Covenant University, Ota 2016.**

### SELECTED PUBLICATIONS

- (1) Falade AO, Adewole KE, Ishola AA and Gyebi GA. Computational studies on the cholinesterase, beta-secretase 1 (BACE1) and monoamine oxidase (MAO) inhibitory activities of endophytes-derived compounds: towards discovery of novel neurotherapeutics. **Journal of Biomolecular Structure and Dynamics. 2022. DOI: 10.1080/07391102.2022. 2035255 (accepted article)**
- (2) Falade AO, Omolaiye GI, Adewole KE, Agunloye OM, Ishola AA, Okaiyeto K, Oboh G and Oguntibeju OO. American Journal of Biochemistry and Biotechnology 2022, 18 (1): 9-22. DOI: 10.3844/ajbbsp.2022.9.22
- (3) Adewole KE, Ishola AA, Olaoye IF. In silico profiling of histone deacetylase inhibitory activity of compounds isolated from *Cajanus cajan*. **Beni-Suef University Journal of Basic and Applied Sciences 2022, 11(9). DOI: 10.1186/s43088-021-00191-y**
- (4) Omolaso BO, Adesanwo JK, Ishola AA, Adegoke AG, Akingbule FO, Ipadeola YA, Adewole KE. Antidiarrheal activity of *Bridelia ferruginea* bark methanolic extract involves modulation ATPases in mice and inhibition of muscarinic acetylcholine receptor (M3) and prostaglandin E2 receptor 3 (EP3) in silico. **Journal of Complementary and Integrative Medicine 2021. DOI: 10.1515/jcim-2021-0240**
- (5) Falade AO, Adewole KE, Ekundayo TC. Aptitude of endophytic microbes for production of novel biocontrol agents and industrial enzymes towards agro-industrial sustainability. **Beni-**

- Suef University Journal of Basic and Applied Sciences 2021, 10(61). DOI: 10.1186/s43088-021-00146-3**
- (6) Adewole KE, Gyebi GO, Ibrahim MI. Amyloid beta fibrils disruption by kolaviron: molecular docking and extended molecular dynamics simulation. **Computational Biology and Chemistry (accepted August 2, 2021)**
  - (7) Ola OS, Adewole KE. Anticlastogenic and hepatoprotective effects of Kolaviron on sodium valproate-induced oxidative toxicity in Wistar rats. **Egyptian Journal of Basic and Applied Sciences 2021, 8(1): 167-179.**
  - (8) Adewole KE, Attah AF, Osawe SO. Exploring phytotherapeutic approach in the management of valproic acid-induced toxicity. **Advances in Traditional Medicine 2021. DOI: 10.1007/s13596-021-00575-6**
  - (9) Falade AO, Adewole KE, Ekundayo TC. Therapeutic potentials of endophytes for healthcare sustainability. **Egyptian Journal of Basic and Applied Sciences 2021 8(1): 117-135**
  - (10) Adewole KE, Ishola AA, Omolaso BO. Identification of potential histone deacetylase inhibitory bioflavonoids from *Garcinia kola* (Guttiferae) using in silico protein-ligand interaction. **Physical Sciences Reviews, 2021. DOI:10.1515/psr-2020-0099**
  - (11) Ishola AA, Adewole KE, Tijjani H, Abdulai SI, Asogwa NT. Phylogenetic analysis of coronavirus genome and molecular studies on potential anti-COVID-19 agents from selected FDA-approved drugs. **Journal of Biomolecular Structure and Dynamics. 2021. DOI: 10.1080/07391102.2021.1902392.**
  - (12) Adewole KE, Attah AF, Adebayo JO. *Morinda lucida* Benth (Rubiaceae): A review of its ethnomedicine, phytochemistry and pharmacology. **Journal of Ethnopharmacology 2021 114055. DOI: 10.1016/j.jep.2021.114055**
  - (13) Adewole KE and Ishola AA. BACE1 and cholinesterase inhibitory activities of compounds from *Cajanus cajan* and *Citrus reticulata*: an *in silico* study. **In Silico Pharmacology 2021 9 (1): 14. DOI: 10.1007/s40203-020-00067-6**
  - (14) Olayinka ET and Adewole KE. *In vivo* and *in silico* evaluation of the ameliorative effect of hesperidin on finasteride-induced testicular oxidative stress in Wistar rats. **Toxicology Mechanisms and Methods 2020 31(2); 81-89. DOI: 10.1080/15376516.2020.1831123**
  - (15) Olayinka ET and Adewole KE. Ameliorative effect of morin on dutasteride-tamsulosin-induced testicular oxidative stress in rat. **Journal of Integrative Medicine 2020. 10.1515/jcim-2019-0160**
  - (16) Omolaso BO, Oluwole FS, Odukanmi OA, Adesanwo JK, Ishola AA, Adewole KE. Evaluation of the gastrointestinal anti-motility effect of *Anacardium occidentale* stem bark extract: a mechanistic study of antidiarrheal activity. **Journal of Pharmaceutical Analysis 2020. DOI: 10.1016/J.jpa.2020.06.009**
  - (17) Adebayo JO, Adewole KE. Evaluation of cysteine-stabilised peptide fraction of aqueous extract of *Morinda lucida* leaf for hepatotoxic effects in mice. **Nigerian Journal of Pure & Applied Sciences 2020 33 (1): 3696-3708. DOI: 10.6084/m9**
  - (18) Adewole KE and Ishola AA. A Computational Approach to Investigate the HDAC6 and HDAC10 Binding Propensities of *Psidium guajava*-derived Compounds as Potential Anticancer Agents. **Current Drug Discovery Technologies 2020. DOI: 10.2174/1568009620666200502013657**
  - (19) Olayinka ET and Adewole KE. Morin Attenuates Dutasteride/Tamsulosin-Induced Hepatic Oxidative Stress in Rat. **Ife Journal of Science 2020 22(1): 165-175. DOI:10.4314/ijfs.v22i1.16**
  - (20) Adewole KE. Nigerian antimalarial plants and their anticancer potential: A review. **Journal of Integrative Medicine 2020 18(2): 92-113. DOI: 10.1016/j.joim.2020.01.001**

- (21) Adewole KE and Attah AF. Antimalarial plants with potential male-factor antifertility properties. **Journal of Complementary and Integrative Medicine** 2019. DOI: 10.1515/jtcm-2018-0214
- (22) Ishola AA and Adewole KE. *In silico* screening reveals histone deacetylase 7 and ERK1/2 as potential targets for artemisinin dimer and artemisinin dimer hemisuccinate. **Current Drug Discovery Technologies** 2019. DOI: 10.2174/1570163816666190705164756
- (23) Ishola AA and Adewole KE *In silico* screening of anticholinesterase alkaloids for cyclooxygenase-2 (COX-2) and matrix metalloproteinase 8 (MMP-8) inhibitory potentials as multi-target inhibitors of Alzheimer's disease. **Medicinal Chemistry Research** 2019 **28(10): 1704-1717**
- (24) Adewole KE and Ishola AA. Phytosterols and triterpenes from *Morinda lucida* Benth (*Rubiaceae*) as potential inhibitors of antiapoptotic BCL-XL, BCL-2, and MCL-1: an in-silico study. **Journal of Receptors and Signal Transduction** 2019. DOI:10.1080/10799893.2019.1625062
- (25) Ishola AA and Adewole KE. Phytosterols and triterpenes from *Morinda lucida* Benth. Exhibit binding tendency against class I HDAC and HDAC7 isoforms. **Molecular Biology Reports** 2019 **46 (2): 2307-2325**
- (26) Adewole KE, Igunnu A Adebayo JO. Effects of cysteine-stabilised peptide fraction of aqueous extract of *Morinda lucida* leaf on selected cardiovascular disease indices in mice. **Indian Journal of Clinical Biochemistry** 2018. <https://doi.org/10.1007/s12291-018-0776-4>
- (27) Adewole KE and Adebayo JO. Effects of cysteine-stabilized peptide fraction of *Morinda lucida* leaf on kidney function indices in mice. **Tokai Journal of Experimental and Clinical Medicine** 2018 **43 (3): 90-96**
- (28) Adewole KE, Attah AF, Sonibare MA, Moody JO, Adebayo JO. Identification of Antioxidant Cysteine-stabilised Peptides of *Morinda lucida* Benth. Leaf. **Indian Journal of Pharmaceutical Sciences** 2018 **80(1): 99-107**
- (29) Adebayo JO, Adewole KE, Krettli AU. Cysteine-stabilised Peptide Extract of *Morinda lucida* (Benth) Leaf exhibits antimalarial activity and augments antioxidant defense system in *P. berghei*-infected mice. **Journal of Ethnopharmacology** 2017 **207: 118-128**
- (30) Adewole KE and Adebayo JO. Antioxidant defense system induced by cysteine-stabilized peptide fraction of aqueous extract of *Morinda lucida* leaf in selected tissues of *Plasmodium berghei*-infected mice. **Journal of Integrative Medicine** 2017 **15(5): 388-397**
- (31) Nwichi SO, Adewole KE, Dada AO, Ogidiana O, Mokobia OE, Farombi EO. Cocoa powder exhibit hypolipidemic potential in cholesterol-fed rats: **African Journal of Medicine and Medical Science**. 2012 Dec: 41 Suppl; 39-49